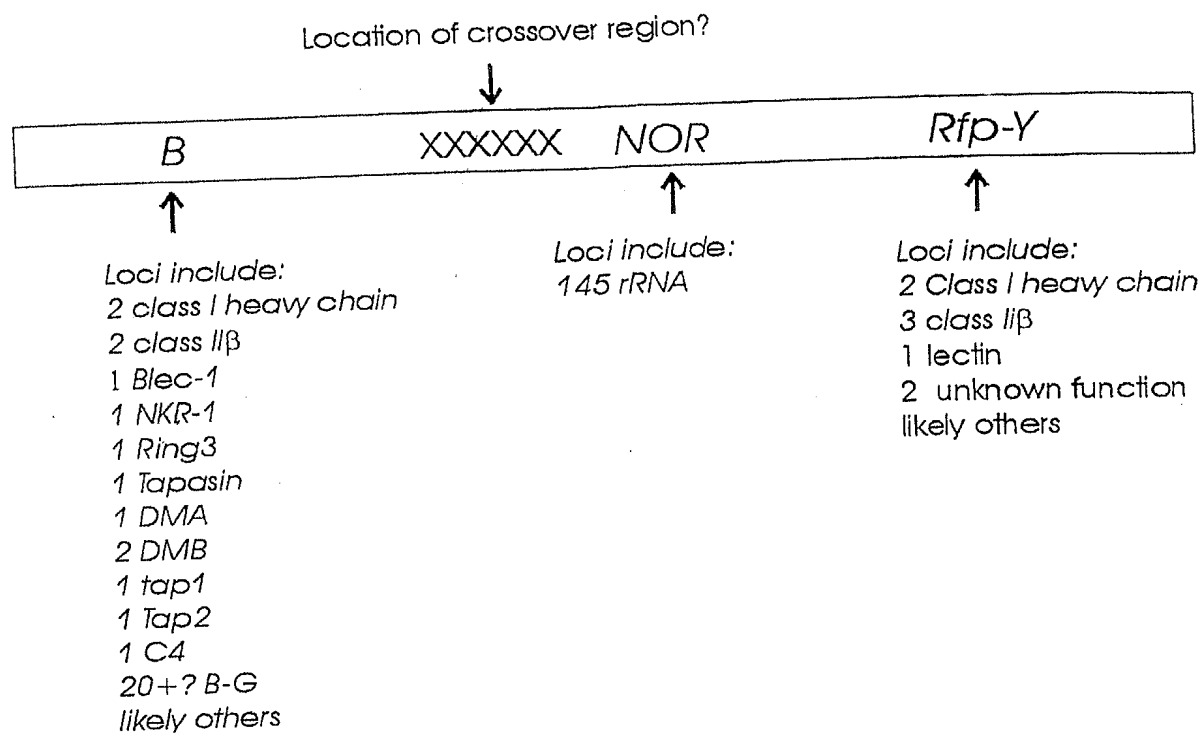


Figure 1



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5'-untranslated region
 Y-FVw*7 GATCTGCTGGCGCCCGGTGACGTCAACCGGTACAGGACTCCATTGGCGGGAGA/GGGGAGGACCAATGGGGCGGGCGGTGC//CA
 B-FIV*12 AT-----A-----ATAAACTC-AACTA-----A--GC-A-----AG-----G-GGAGGAGTAGGAAG--AAGGAG-TG-G

Exon 1 (Signal Peptide)→
 Y-FVw*7 C//GGAGCGCG///////////////////CCGAGCGGCC ATG GGT CCG AGC GAG GTG GTG CTG GGG CTG GTG GGC CCC CTG GGC /// GCG GCG GAG TGC G
 B-FIV*12 -TG--T-----GACTTGAGAGTGAG-G-T--AG-G ---G ---T--G- C- C- -GC ---C-C- ---G- T--G-- GGG ---CC CC- -

Intron 1 →
 Y-FVw*7 GTGAGTCTCGGGATCGGCTGCCCGGACCGGACCGCGGTCTCTGCTCCCGACGCGGGCTCG//TCCGCGACCCACCGGCTCAGGCTCCAGCGCGCTGTGCCCGGAG
 B-FIV*12 -----G-C-C---//A-----/T-C-C-//-----TAA-/---A-----GG--T-T-C-T-GGA--TGA-/-----A-----C--CT-TGC-C-----

Exon 2 (α 1 domain)→
 Y-FVw*7 GG TCG CAC TTC CTG CGC TAC ATC ATC ACC GGG ATG ACG GAT CCC GGC CCC GGG ATG CCG GGG TTC GTG ATC GTC GGG TAC GTG GAC GAC AAA ATC TTC
 B-FIV*1 A- CTC --T A-- --G ---A-- -AA --G -C- ---CA- ---T-- --CT --G --- --CT-TGC-C-----

Y-FVw*7 GGT ACC TAC AAC AGT AAG AGC AGG ACT GCA CAG CCT /// ATC GTG GAG ATG CTG CCG CAG GAG CAG CAG GAG CAC TGG GAC ACG CAG ACC CAG AAG GCG
 B-FIV*12 -TG CA- --- --C --CC GCG C-- -GG TAC GT- -C CCG C- -A- TG- -A GC- G-C A- -C- ---C- T-- ---T GGA ---G ---TC -GA

Intron 2 →
 Y-FVw*7 CAG GGC GGT CAG CCG GAT TTT GAC TGG AAC CTG AAC AGG CTG CCG GAA CCG TAC AAC AGT AAA G GTGACGTGGGGGAAGCTGACGCGGATGCTGGGACAG
 B-FIV*12 --- --A- ---A- AT- GAC CG- GA- ---GG- -TA ---A- CCG --- --C-G --CC GGC G ---AC--CC-GG--C--G--T-CG--G--G-----TG--GA

Y-FVw*7 GAGCTCTGTGTGCGCAGGGTGTCCGCCAGC/CCCACTGAGGTGGCGGTGCCCGCCAGCCAGCTGTCTGTGCGCTGTCGCGCTCCATGTGTGTCGCACTGTCTCCCTGGCGCCCTGCTCTG/CGCC/CA/CCC//
 B-FIV*12 -CT-/ATG/C-A-T-//-----CA-A--C-CA////////-TG---T//---G-G-//A-//-----CG-///-CT-C-/-A-A-CC-A--GC---GG-GT--G-GT--GG

Exon 3 (α 2 domain) →
 Y-FVw*7 ///ACCCACCCGACCTCATGSCACTCGGGTGCAGGCTTACAGAGCTCTCACTATTACTGTGCTGCTCAG GG TCT CAC ACG ATG CAG ATG ATG TTT GGC TGT GAC
 B-FIV*12 GGG-----A-----T--C-GCT--G-G-//A-----GG-----GG-----C-----CCC-G-C-//-----TT-----G-----TG-----AC-----

Y-FVw*7 ATC CTG GAG GAC GGC AGC ATC CGA GGG TAC GAT CAG TAT GCA TTT GAT GGG AGG GAC TTC CTT GCC TTT GAT ATG GAC ACG ATG ACG TTC ACC GCG GCG
 B-FIV*12 --- -C ---G- ---CC ---G ---T- ---ATG ---C -AC ---A ---AC- ---C ---C -AA -G- --- --T --- --A

Y-FVw*7 GAT CCA CTG GCT GAA ATC ACC AAG AGG AGA TGG GAG ACA GAA GGG ACG TAT GCT GAG AGA TGG AAG CAT GAG CTG GGG ACT GTC TGT GGT CAG AAC TTG
 B-FIV*12 -T- ---A- -A -TT CC- --- --A- ---GA- -G A-T /// G-A C- ---G ---A- T-C ---A- GAA AC- -C --G- --TGG C--

Intron 3 →
 Y-FVw*7 AGG ACA TAC CTG GAG CAT GGG AAG GCA GCG CTG AAA AGG AGA G GTGAG/////////GATGGAGGGGAGCTGGGCTG////////GGCTGGGTGGGGCAGAGGCTCAGTG
 B-FIV*12 C-- ---G-- --A T-C --- --T A- ---GCC --- --CGGGT/////////-----GG-G-A--G-CTGAGTGTG-----AC-----G-G-----C-

Figure 2B

<< 178/179f(bold)

Figure 3

<i>$\alpha 1$ domain</i>	10.	20.	30.	40.	50.	60.	70.	80.
YFV _w *7	GSHSLRYFLTGMTDPGPGMPRFVIVGVVDDKIFGTVNSKSRTAQPIVEMLPQEDQEHWDITQKQAQGGERDFDWNLRLLPERYNKSK							
BFIV*12	EL-T---IQ-A-----Q-W--T-----GEL-VH-N-TA-RYV-RT-WIAKA-QY--G---IG--N-QIDRE--GI-QR---QTG							
<i>$\alpha 2$ domain</i>	90.	100.	110.	120.	130.	140.	150.	160.
YFV _w *7	GSHTMQMMFGCDILEDGSIKGYDQYAFDGRDFLAFDMDFMTFTAADPVAEITKRRWETEGTYAERWKHELGTVCVQNLRRLRYLEHGKAALKRR							
BFIV*12	---V-W-Y-----G-P-----Y-M-Y-----T---KG-----V-E-VP---K--E-SE/P-----NY-EET--EW---V-Y---E-G--							
<i>$\alpha 3$ domain</i>	180.	190.	200.	210.	220.	230.	240.	250.
YFV _w *7	VQPEVRVWGKEADGILTLSCAHGFYPRPITISWMKDGWVRDQETRWGGIVPNSDGTTHASAAIDVLPEDDGKYWCVEHASLPQGLFSW							
BFIV*12	ER-----R-----VV--L---A--G-DAHS-----G-----TWVT--AQ-G-----Q-----Y--							
<i>Transmembrane domain</i>	280.	290.	300.					
YFV _w *7	EP/QPNLPIVAGAVVAIVAV/IAAVVGLVVWVKS							
BFIV*12	--P---V-----VA-----IA-MVG--FIYRRHA							
<i>Cytoplasmic domains</i>	310.	320.	330.					
	GKEKKGYEAAAGHDGESSGSGATGSEPSI							
	--KG---NI-PDRE-G--S-S---N-A-							

Figure 4

GGTGTGGATTTCATCATCTACAGACGCCACGCAGGTAAAAGCAGAGGGGTGCAGGCGGGCAGTGGTGGCAGTGGGGGGATCTG
GGTCCCCCTTGGGAGCCCTCAGCCTGGCTGTGATGTGAACCTGTGTTGATTTCATCTCTCTGTCTGCAGGGGAAGAAGGGGAAGG
GCTACAACATCGCGCCCGGTGAGTGATGAGGGCAGCGCTGTCCCCACCTCTGCCCAGTGCCAGGGCGGTCTCTGGGTCTGCA
CTTTCTCCCAGGGTACCCATTCTTGGTGCTTGGGGCTGCTCCACGCCCCATAGGGAGCACAGGGCTGGGTCTCAGCTGTTC
CTCCCTTATAGACAGGGAAGGTGGATCCAGCAGCTCGAGCACAGGTGCGGTGTGGGGCTGTGGGTGGGAGGGGTCCGTGTGC
TCTCTGTGGTACTGCCCAGGGCTGGGCTATGCTGGGGCTCTGCGGGGAGACCCCGGAGCAGAGGGTTGGGATGTGAACATGG
GCCCCGTGGGACACCATCTCTTCTCATCCCCACAGGGAGCAACCCCTCCATCTGAGTGCTGTGCTTCAGCATGCACGAAGCCA
ACAGTCCACACCAGCATTTGGGGTCAGTGATGGGCACAGCCCCATCCTCTTGACCTCTCACATCTCGTTCTGCTTCCTATGCT
GACTGTTATGC

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Figure 5

GGGGAGAAAGCGGGAGCTGCAGGTGGGGCCTGGACCCCCTTGGGAATGCCCATGTTCTGACATGAGCTTAATGTTTCACACTTC
TTTCTATCTGTAGGGAAGGAGAAGAAGGGTTATGAAGCAGCGCCAGGTGAGTGCCAAGGGCAGCGCTTTACCCTGCCAGTGCT
TGGGGTCAGGGCACTCTGGGGCCCCCTCGTTGCTTTTGGGGTCACAGTGCAGGTGGTGGCATGATGCTCCATGCCCCACAGCGA
GCACAGAGCCAGGGCTCATGGCTCTCCCTCCCTTGCAGGCCAGGGCGGAGAATCCAGCATATCGGCCACAGGTATAgTGTGGA
ATGGGGGTTTCAGGAGGGGTCCCTGTGTTGGAGCATTTCCAGTTCCTGCACTCCCCTGTTGGACCCACGGCCGGGGCAATAC
TGGGCCcAaCCCTCCCTGGAGAAcCCCCAGGGTGGTGAATCGGGACGGGGACGTGGTCCCATATGACACCACCTCTTCTCACC
CGCACAGGAAGTGAACCTCCCTTCTGAGTGCTGTGTTACTTCAGCCAGCCCCTGCATGCATGTGTTTGGAGTGTGTGGGTGTGT
GTATCTCAGTGTGTGCTCAACTTCCTGCATCTCCTCGGGCTGACA

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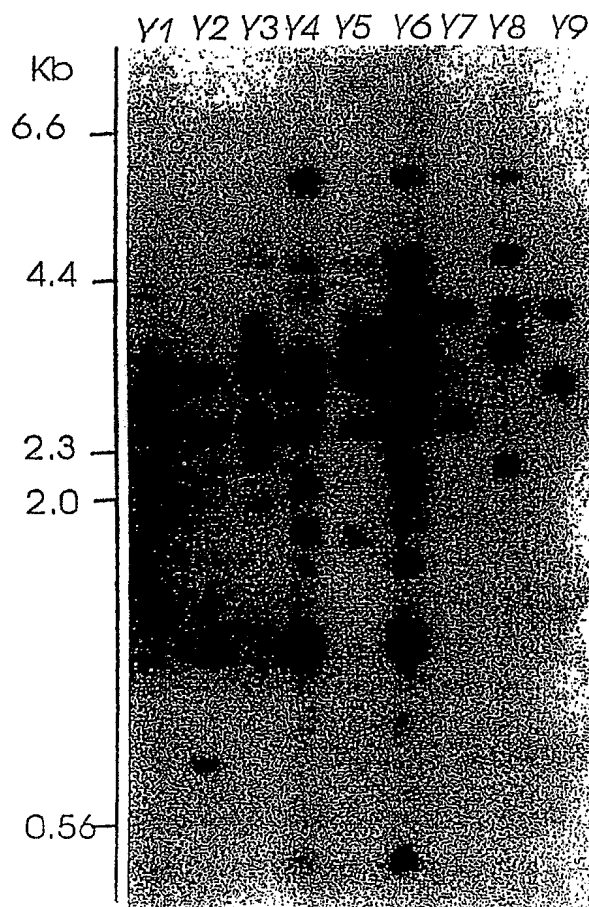
Figure 1 consists of three panels (A, B, and C) showing Southern blot analysis of the Y chromosome. The blots are organized into two main sections: the A186 family (left) and the B186 family (right). The A186 family is further divided into Dam A186 and Sire 186. The B186 family is divided into Dam B186 and Sire 186. Molecular weight markers are indicated on the right in Kb.

Panel A: Shows bands for Y3, B11, BR9, and Y2. The A186 family (left) shows bands for Y3, B11, BR9, and Y2. The B186 family (right) shows bands for Y3, B11, BR9, and Y2. Molecular weight markers are indicated on the right in Kb: ~4.1, ~2.3, ~2.1, ~1.9, ~0.6.

Panel B: Shows bands for Y2- and Y3-. The A186 family (left) shows bands for Y2- and Y3-. The B186 family (right) shows bands for Y2- and Y3-. Molecular weight markers are indicated on the right in Kb: ~50, ~4.1, ~0.6.

Panel C: Shows bands for B11, BR9, and B11. The A186 family (left) shows bands for B11, BR9, and B11. The B186 family (right) shows bands for B11, BR9, and B11. Molecular weight markers are indicated on the right in Kb: ~2.3, ~2.1, ~1.9.

Figure 7



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Figure 8

